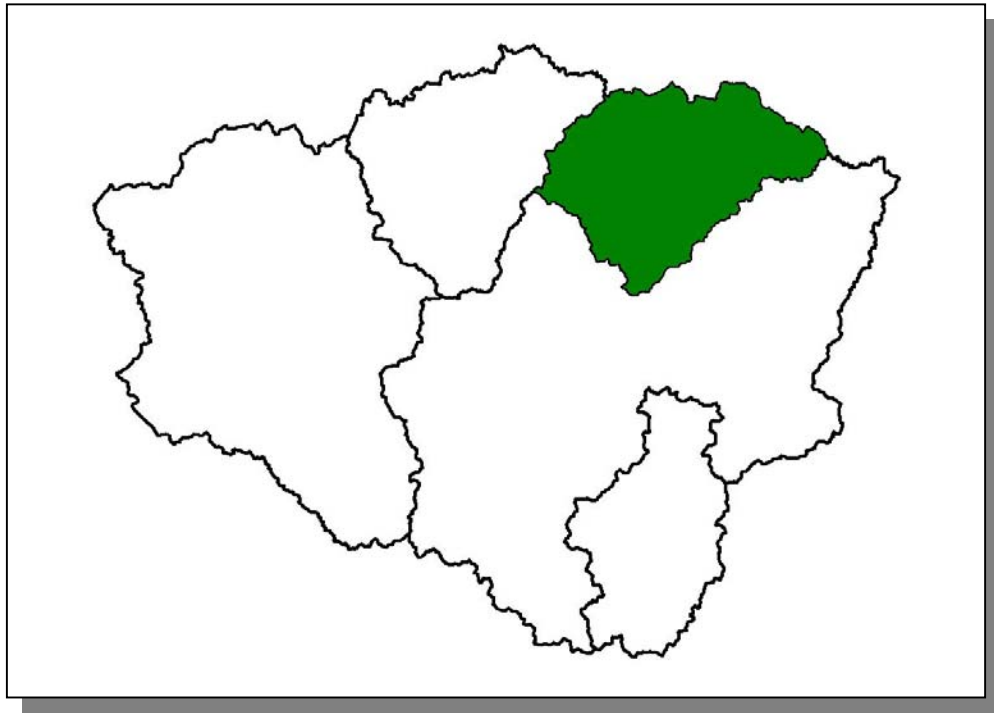
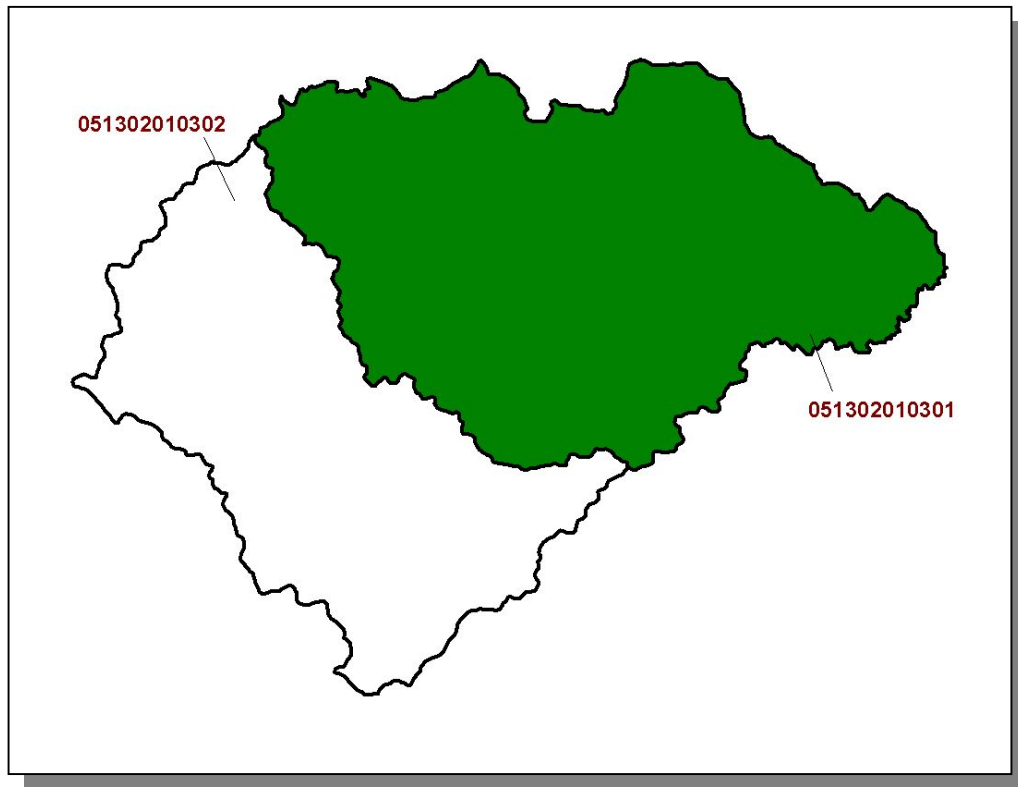


**4.2.C. 0513020103.**

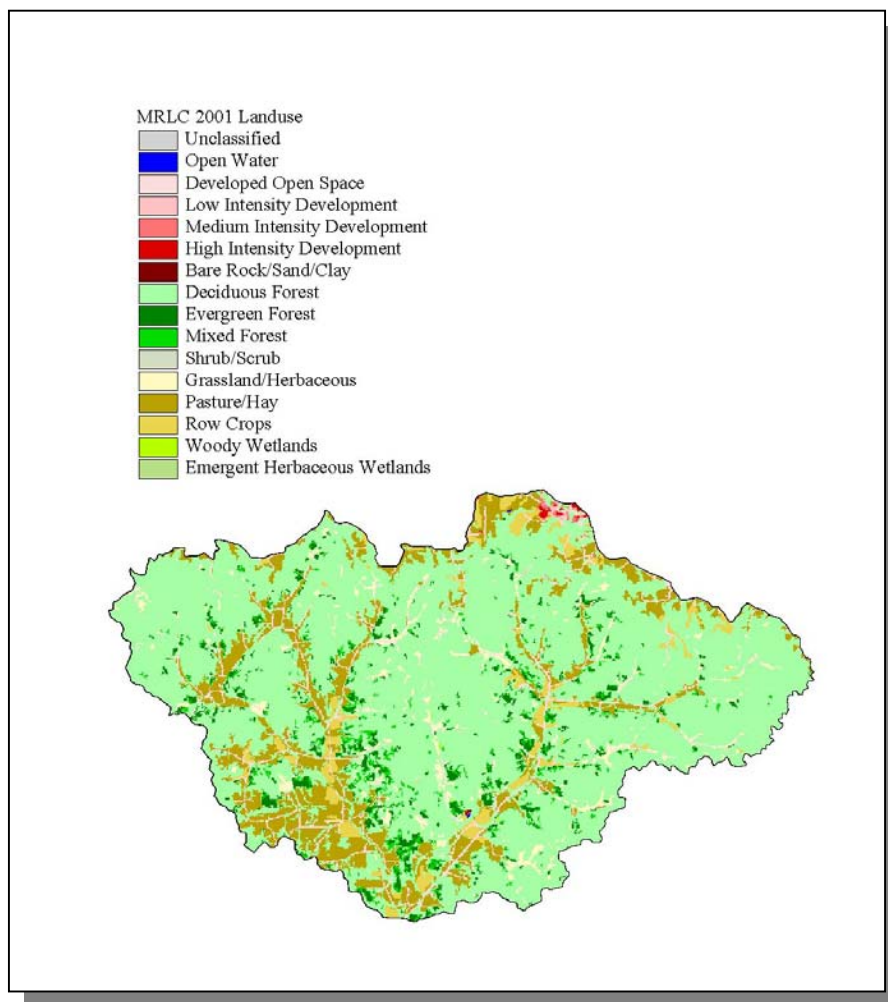


**Figure 4-75. Location of Subwatershed 0513020103.** All Old Hickory Lake HUC-10 subwatershed boundaries are shown for reference.

**4.2.C.i. 051302010301 (Upper Goose Creek).**

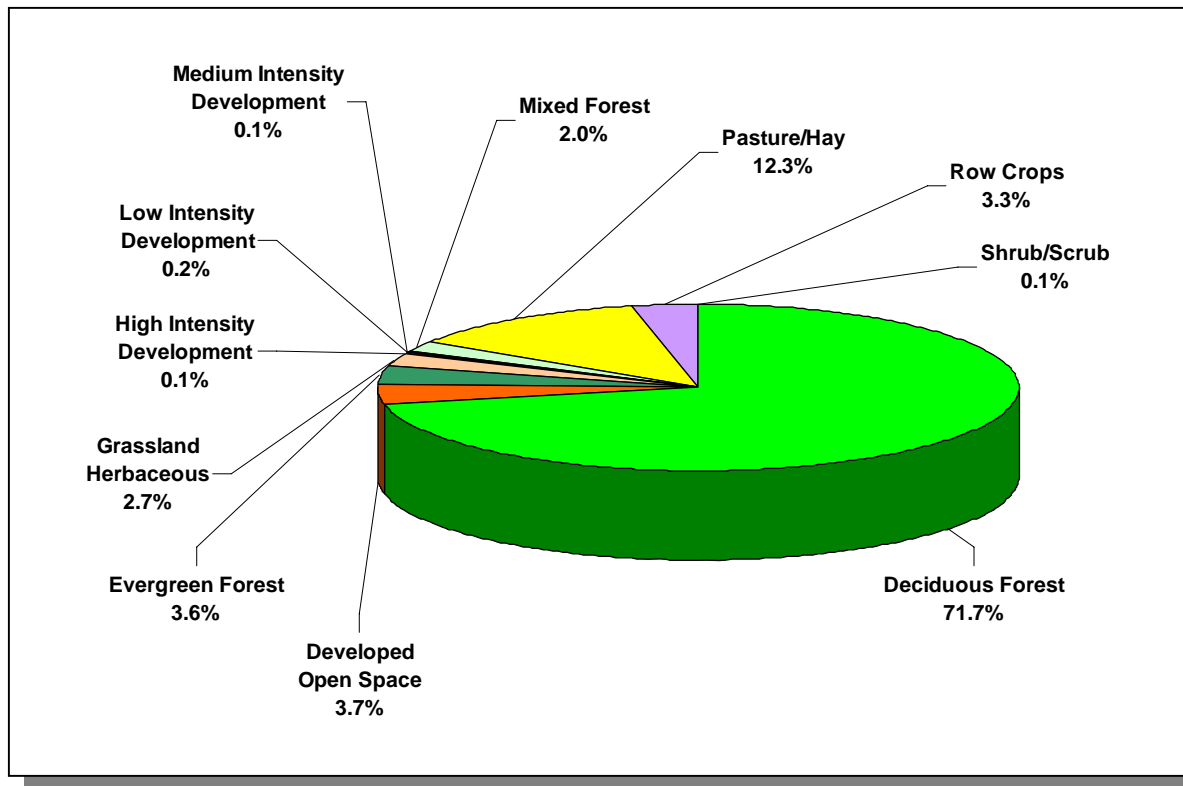


**Figure 4-76. Location of Subwatershed 051302010301.** All HUC-12 subwatershed boundaries are shown for reference.



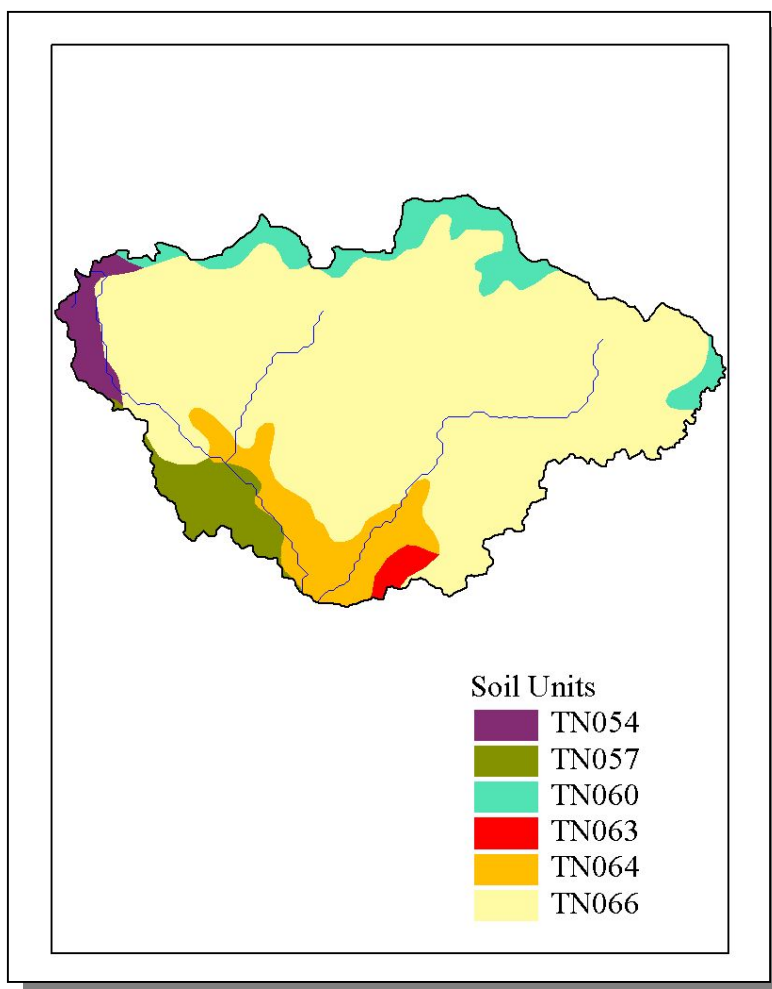
**Figure 4-77. Illustration of Land Use Distribution in Subwatershed 051302010301.**

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*Figure 4-78. Land Use Distribution in Subwatershed 051302010301. More information is provided in Appendix IV.*

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**Figure 4-79. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010301.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN060	5.00	B	1.30	5.32	Sity Loam	0.39
TN063	0.00	C	1.19	5.72	Clayey Loam	0.32
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28

**Table 4-61. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010301.** The definition of "Hydrologic Group" is provided in Appendix IV.

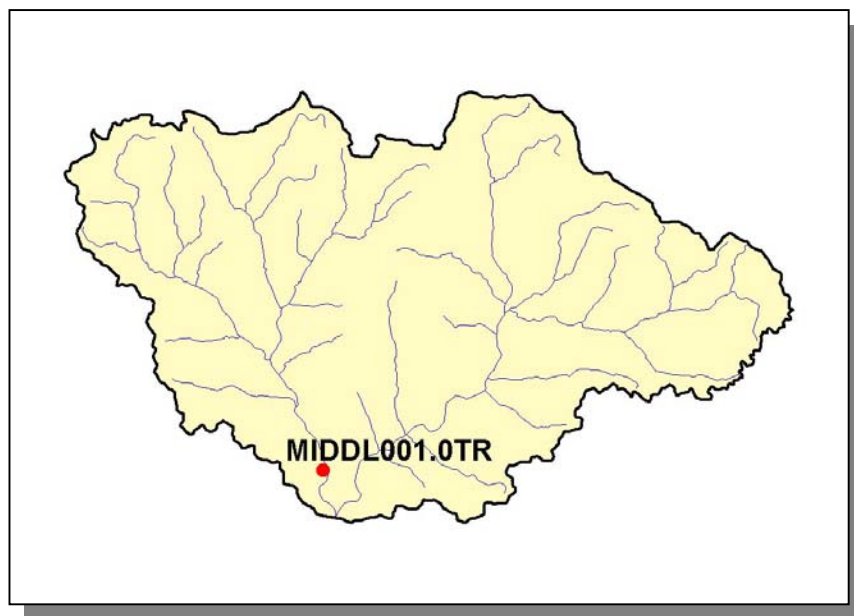
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Macon	15,906	17,854	20,386	18.09	2,878	3,230	3,689	28.2
Trousdale	5,920	6,748	7,259	5.06	300	342	368	22.7
<b>Total</b>	<b>21,826</b>	<b>24,602</b>	<b>27,645</b>		<b>3,178</b>	<b>3,572</b>	<b>4,057</b>	<b>27.7</b>

*Table 4-62. Population Estimates in Subwatershed 051302010301.*

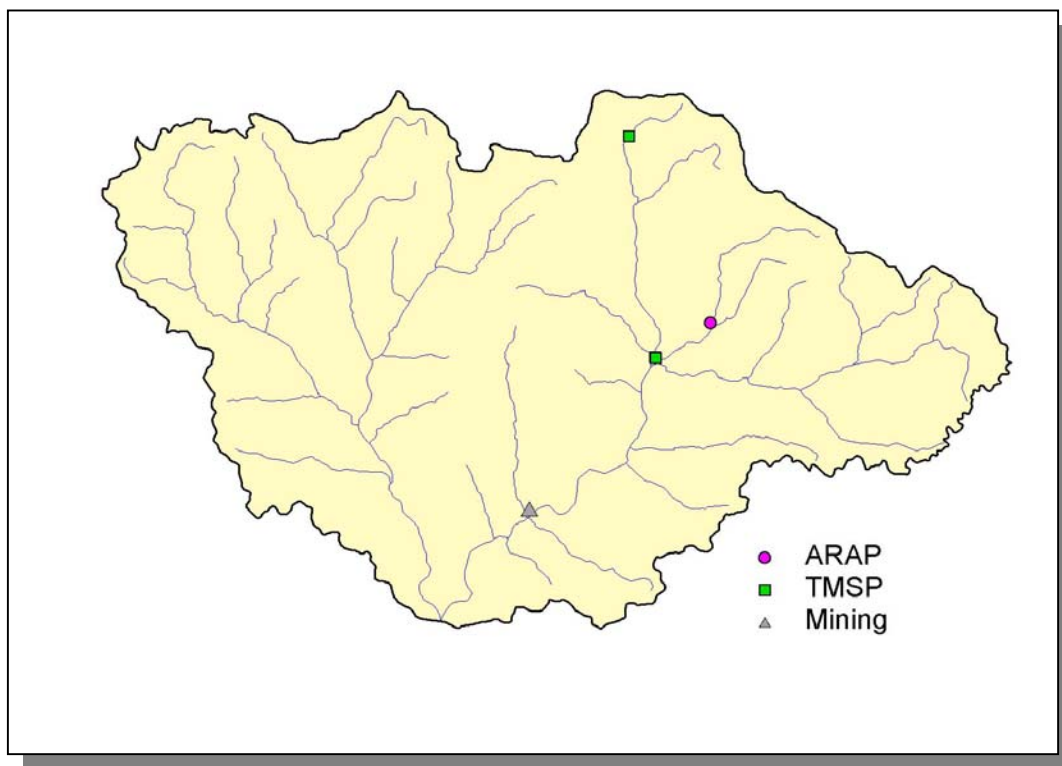
			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Lafayette	Macon	3,641	1,695	1,323	348	24

*Table 4-63. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302010301.*



*Figure 4-80. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010301. More information, including site names and locations, is provided in Appendix IV.*

**4.2.C.i.a. Point Source Contributions.**



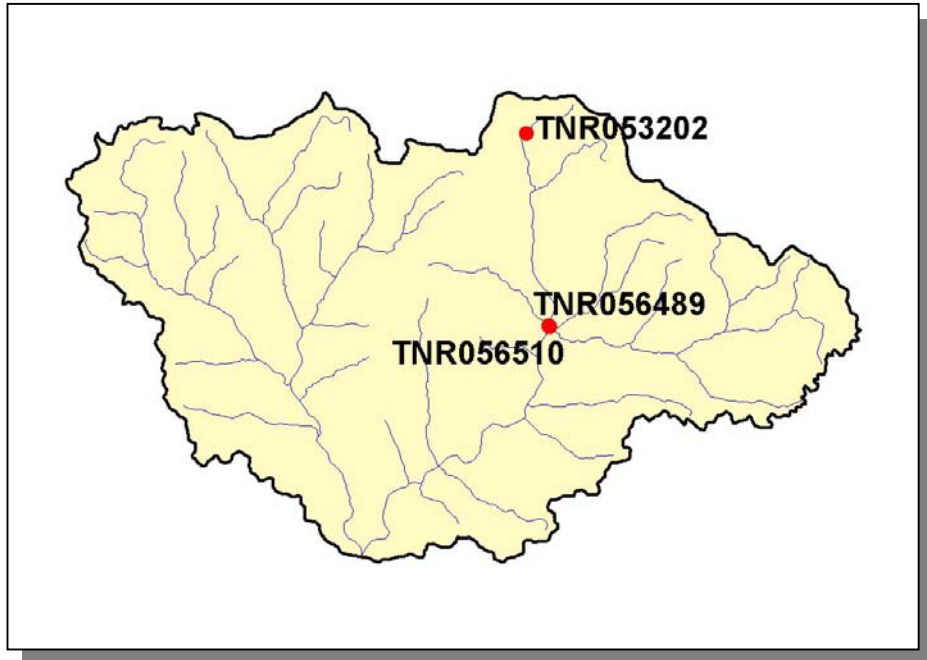
**Figure 4-81. Location of Permits Issued in Subwatershed 051302010301.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-82. Location of Active Mining Sites in Subwatershed 051302010301.** More information, including the names of mining operations, is provided in Appendix IV.



**Figure 4-83. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302010301.** More information is provided in Appendix IV.



**Figure 4-84. Location of TMSP Sites in Subwatershed 051302010301.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.C.i.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
2,450	4,240	52	5	340	25

**Table 4-64. Summary of Livestock Count Estimates in Subwatershed 051302010301.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Macon	15,039	26,098	318	675	2,377	111
Trousdale	6,672	11,344	135	243	112	195

**Table 4-65. Summary of Livestock Count Estimates in Macon and Trousdale Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

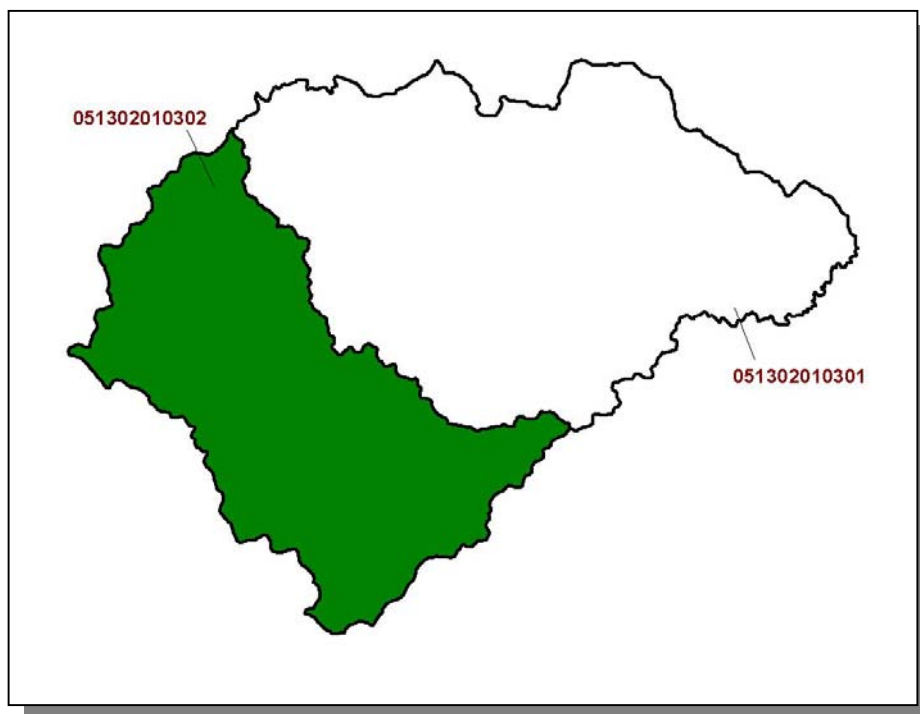
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Macon				
Trousdale	30.0	30.0	0.1	0.4

**Table 4-66. Forest Acreage and Annual Removal Rates (1987-1994) in Macon and Trousdale Counties.**

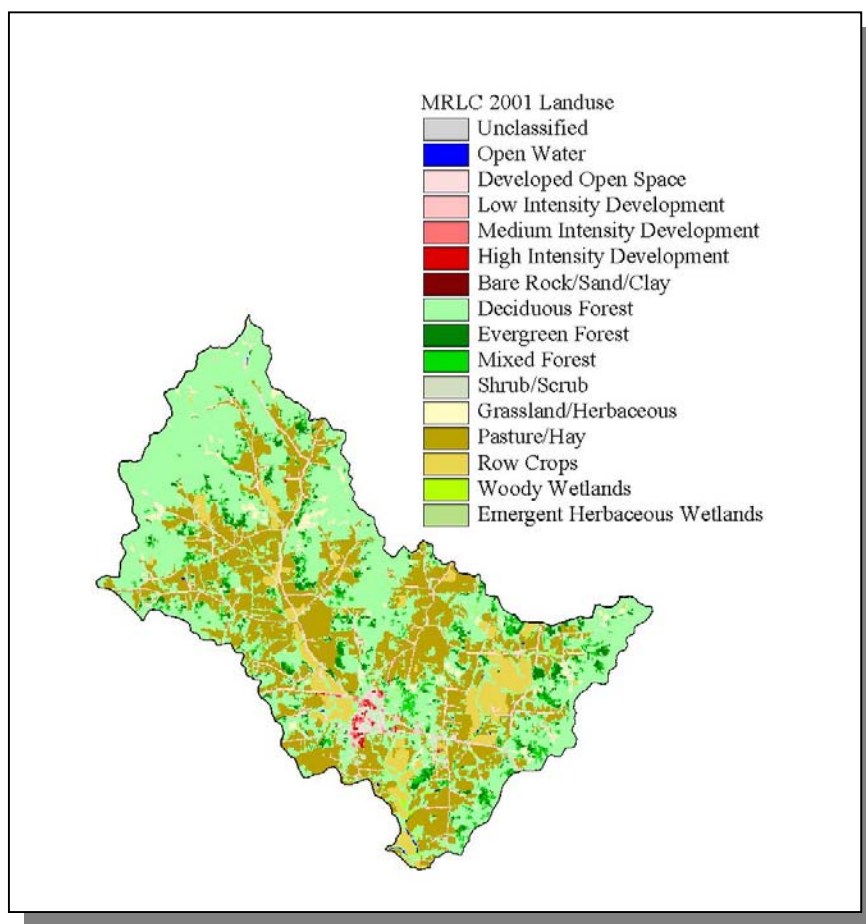
CROPS	TONS/ACRE/YEAR
Legumes (Pasture)	0.10
Grass (Pastureland)	0.43
Grass (Hayland)	0.20
Legumes, Grass (Hayland)	0.16
Legumes (Hayland)	0.13
Grass, Forbs, Legumes (Mixed Pasture)	0.97
Corn (Row Crops)	3.99
Tobacco (Row Crops)	10.68
Wheat (Close-Grown Cropland)	3.43
Other Vegetable and Truck Crops	5.48
Conservation Reserve Program Lands	0.28
Farmsteads and Ranch Headquarters	0.16

**Table 4-67. Annual Estimated Total Soil Loss in Subwatershed 051302010301.**

**4.2.C.ii.** 051302010302 (Lower Goose Creek).

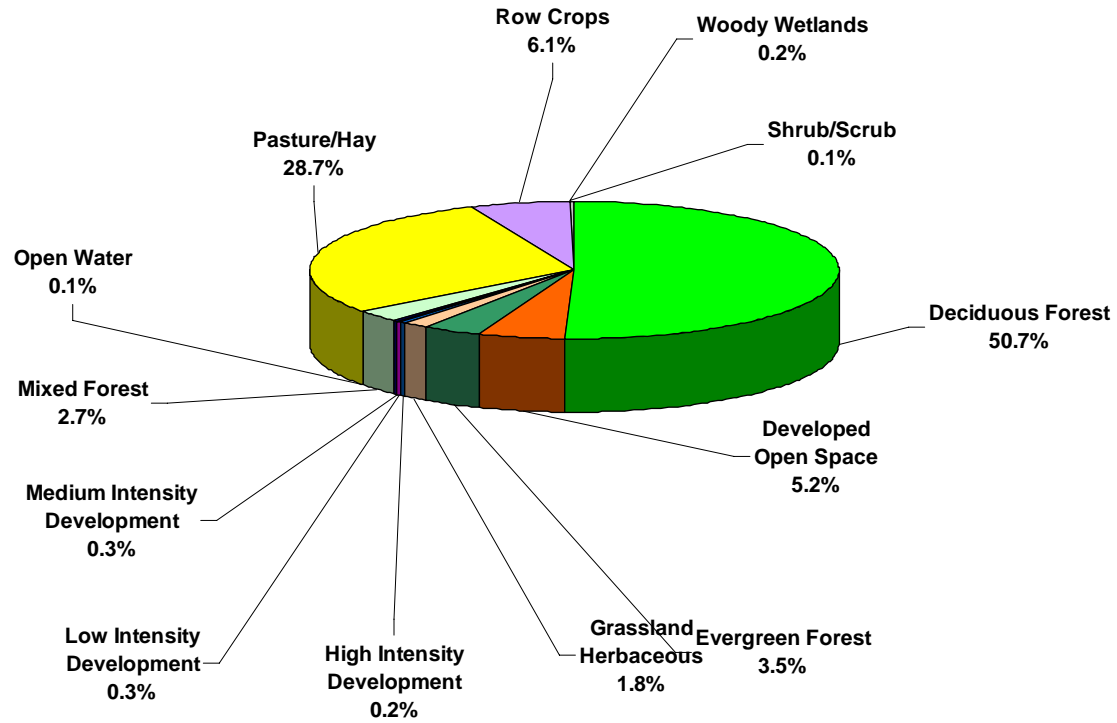


**Figure 4-85. Location of Subwatershed 051302010302.** All HUC-12 subwatershed boundaries are shown for reference.



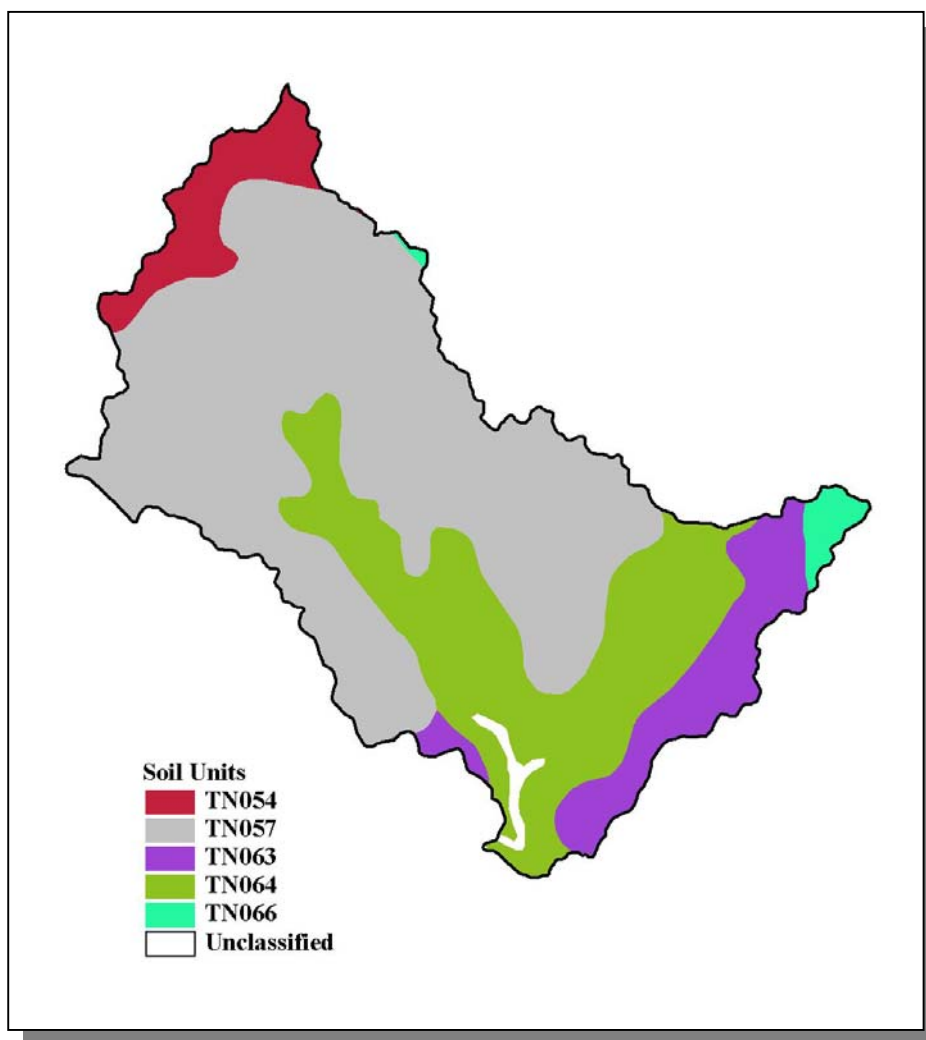
**Figure 4-86. Illustration of Land Use Distribution in Subwatershed 051302010302.**

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**Figure 4-87. Land Use Distribution in Subwatershed 051302010302.** More information is provided in Appendix IV.

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**Figure 4-88. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010302.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN063	0.00	C	1.19	5.72	Clayey Loam	0.32
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28

**Table 4-68. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010302.** The definition of "Hydrologic Group" is provided in Appendix IV.

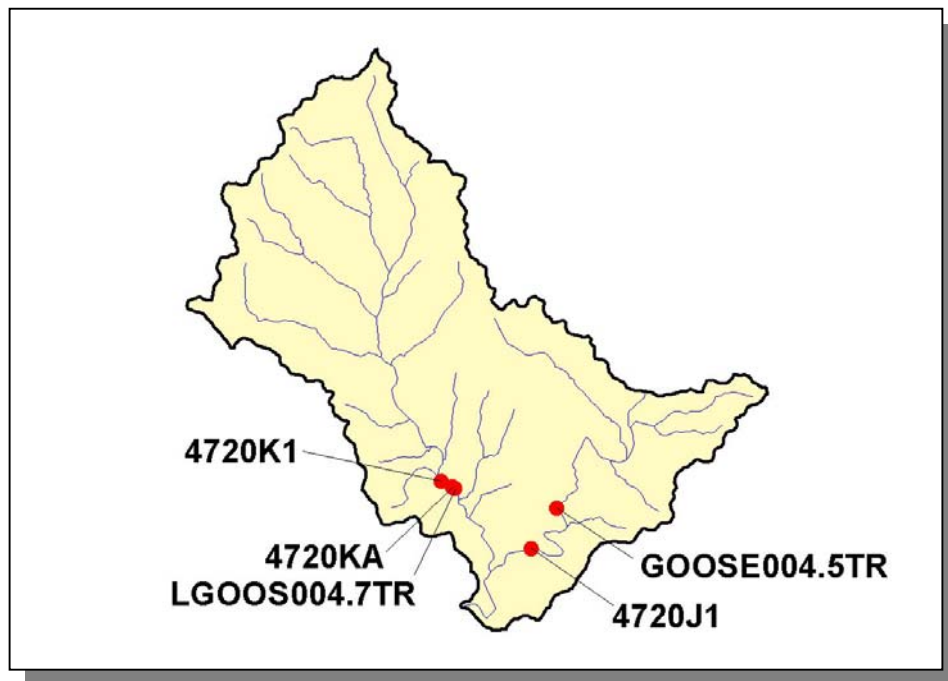
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Macon	15,906	17,854	20,386	0.87	138	154	176	27.5
Sumner	103,281	121,936	130,449	0.07	71	84	90	26.8
Trousdale	5,920	6,748	7,259	34.64	2,051	2,338	2,515	22.6
<b>Total</b>	<b>125,107</b>	<b>146,538</b>	<b>158,094</b>		<b>2,260</b>	<b>2,576</b>	<b>2,781</b>	<b>23.1</b>

*Table 4-69. Population Estimates in Subwatershed 051302010302.*

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Hartsville	Trousdale	2,188	964	907	57	0

*Table 4-70. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302010302.*



*Figure 4-89. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010302. More information, including site names and locations, is provided in Appendix IV.*

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**4.2.C.ii.a. Point Source Contributions.**

There are no point source contributions in this subwatershed.

**4.2.C.ii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
2,699	4,592	55	<5	55	77

**Table 4-71. Summary of Livestock Count Estimates in Subwatershed 051302010302.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Macon	15,039	26,098	318	675	2,377	111
Sumner	22,296	45,116	1,515	50	2,500	189
Trousdale	6,672	11,344	135	243	112	195

**Table 4-72. Summary of Livestock Count Estimates in Macon, Sumner, and Trousdale Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Macon				
Sumner	88.2	88.2	2.0	6.3
Trousdale	30.0	30.0	0.1	0.4

**Table 4-73. Forest Acreage and Annual Removal Rates (1987-1994) in Macon, Sumner, and Trousdale Counties.**

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<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Legumes ((pastureland)	0.41
Grass (Pastureland)	0.46
Grass (Hayland)	0.10
Legumes, Grass (Hayland)	0.34
Legumes (Hayland)	0.13
Grass, Forbs, Legumes (Mixed Pasture)	0.43
Corn (Row Crops)	5.01
Soybeans (Row Crops)	11.27
Wheat (Close-Grown Cropland)	3.43
Tobacco (Row Crops)	6.77
Other Vegetable and Truck Crops	5.48
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.28
Farmsteads and Ranch Headquarters	0.21

**Table 4-74. Annual Estimated Total Soil Loss in Subwatershed 051302010302.**